

High power series (450 V DC ... 1050 V DC)

Series/Type: B32674, B32676, B32678

Date: June 2008

Version:

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High power series (450 V DC ... 1050 V DC)

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Typical applications

For high ripple current modules in:

- Frequency converters
- Industrial and high-end power supplies
- Solar inverters

Climatic

- Maximum operating temperature 100 °C (case)
- Climatic category (IEC 60068-1): 40/100/56

Construction

- Dielectric: Polypropylene (MKP)
- Plastic case (UL 94 V-0)
- Epoxy resin sealing (UL 94 V-0)

Features

- Excellent self-healing properties
- Overvoltage capability
- Optimized electrical contact
- High frequency ripple current
- High reliability
- Long useful life

Terminals

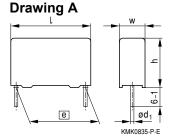
- Parallel wire leads, lead-free tinned
- 2-pin and 4-pin versions
- Standard lead lengths: 6–1mm
- Special lead lengths are available on request

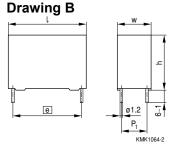
Marking

Manufacturer's logo and lot number, date code, rated capacitance (coded), capacitance tolerance (code letter), rated DC voltage.

Delivery mode

■ Bulk (untaped, lead length 6–1mm)





Dimensions in mm

Number of wires	Lead spacing £±0.4 mm	Lead diameter d ₁ mm	Туре	Drawing
2-pin	27.5	0.8	B32674D	Α
4-pin	37.5	1.2	B32676G	В
4-pin	52.5	1.2	B32678G	В



High power series (450 V DC ... 1050 V DC)

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Ordering codes and packing units for V_R = 300 V DC ($V_{op,70\,^{\circ}C}$ = 450 V DC)

C _R	dV/dt	P ₁	Max. dimensions w × h × l	Ordering code	I _{P,max}	ESL	I _{RMS, max} 70 °C, 0.1 0.3 kHz	I _{RMS, max} 70 °C, 10 kHz	I _{RMS, max} 70 °C, 20 kHz	ESR _{typ} 70 °C, 10 kHz	PU
μF	V/μs	mm	mm		Α	nH	Α	Α	Α	mΩ	pcs.
2.2	40	-	11.0 × 19.0 × 31.5	B32674D3225+000	88	25	0.2 0.7	7.5	6.5	7.5	320
3.3	40	-	12.5 × 21.5 × 31.5	B32674D3335+000	132	25	0.3 1.0	9	8	5.3	280
4.7	40	-	14.0 × 24.5 × 31.5	B32674D3475+000	188	25	0.5 1.4	11	9.5	4.1	260
5.0	40	-	15.0 × 24.5 × 31.5	B32674D3505+000	200	25	0.5 1.5	11	10	4.0	240
5.6	40	-	15.0 × 24.5 × 31.5	B32674D3565+000	224	25	0.6 1.7	11.5	10.5	3.9	240
6.8	40	-	18.0 × 27.5 × 31.5	B32674D3685+000	272	25	0.7 2.1	12.5	11.5	3.7	200
8.0	40	-	16.0 × 32.0 × 31.5	B32674D3805+000	320	25	0.8 2.4	13.5	12.5	3.4	220
8.2	40	-	18.0 × 33.0 × 31.5	B32674D3825+000	328	25	0.8 2.5	14	13	3.2	200
10	40	-	21.0 × 31.0 × 31.5	B32674D3106+000	400	25	1.0 3.0	15	14	2.9	180
12	40	-	22.0 × 36.5 × 31.5	B32674D3126+000	480	25	1.2 3.6	16	15	2.5	160
15	22	10.2	20.0 × 39.5 × 42.0	B32676G3156+000	330	17	1.5 4.5	15	14	3.2	160
20	22	10.2	28.0 × 37.0 × 42.0	B32676G3206+000	440	17	2.0 6.0	15.5	14.5	2.7	110
22	22	20.3	28.0 × 42.5 × 42.0	B32676G3226+000	484	17	2.2 6.6	16	15	2.6	110
25	22	20.3	28.0 × 42.5 × 42.0	B32676G3256+000	550	17	2.5 7.5	16.5	15.5	2.4	110
30	22	20.3	30.0 × 45.0 × 42.0	B32676G3306+000	660	17	3.0 9.0	17	16	2.3	100
35	22	20.3	33.0 × 48.0 × 42.0	B32676G3356+000	770	17	3.5 10.6	18	17	1.5	48
40	15	20.3	30.0 × 45.0 × 57.5	B32678G3406+000	600	17	4.0 12.1	19	18	1.9	70
47	15	20.3	35.0 × 50.0 × 57.5	B32678G3476+000	705	17	4.7 14.2	21	20	1.7	27
60	15	20.3	35.0 × 50.0 × 57.5	B32678G3606K000	900	17	6.0 18.1	23	22	1.6	27

Intermediate capacitance values are available on request.

Composition of ordering code

+ = Capacitance tolerance code

 $K = \pm 10\%$

 $J = \pm 5\%$



High power series (450 V DC ... 1050 V DC)

B32674, B32676, B32678

Ordering codes and packing units for V_R = 450 V DC ($V_{op,70\,^{\circ}C}$ = 630 V DC)

C _R	dV/dt	P ₁	Max. dimensions w × h × l	Ordering code	I _{P,max}	ESL	I _{RMS, max} 70 °C, 0.1 0.3 kHz	I _{RMS, max} 70 °C, 10 kHz	I _{RMS, max} 70 °C, 20 kHz	ESR _{typ} 70 °C, 10 kHz	PU
μF	V/μs	mm	mm		Α	nH	Α	Α	Α	mΩ	pcs.
1.5	75	-	11.0 × 19.0 × 31.5	B32674D4155+000	112.5	25	0.3 0.8	6.5	6	9.2	320
2.2	75	-	12.5 × 21.5 × 31.5	B32674D4225+000	165	25	0.4 1.1	8	7	7.8	280
3.3	75	-	15.0 × 24.5 × 31.5	B32674D4335+000	247.5	25	0.6 1.7	9.5	8.5	5.2	240
4.7	75	-	18.0 × 27.5 × 31.5	B32674D4475+000	352.5	25	0.8 2.4	11.5	10.5	5.0	200
5.0	75	-	16.0 × 32.0 × 31.5	B32674D4505+000	375	25	0.9 2.6	12	11	5.0	220
5.6	75	-	18.0 × 33.0 × 31.5	B32674D4565+000	420	25	1.0 2.9	12.5	11	4.4	200
6.0	75	-	21.0 × 31.0 × 31.5	B32674D4605+000	450	25	1.0 3.1	13	11.5	4.3	180
6.8	75	-	22.0 × 36.5 × 31.5	B32674D4685+000	510	25	1.2 3.5	14	12.5	4.0	160
7.5	75	-	22.0 × 36.5 × 31.5	B32674D4755+000	562.5	25	1.3 3.9	15	13	3.9	160
8.2	54	10.2	20.0 × 39.5 × 42.0	B32676G4825+000	442.8	17	1.4 4.3	11.5	10	8.8	160
10	54	10.2	20.0 × 39.5 × 42.0	B32676G4106+000	540	17	1.7 5.2	12.5	11	7.3	160
15	54	10.2	28.0 × 42.5 × 42.0	B32676G4156+000	810	17	2.6 7.8	14	13	5.0	110
20	54	20.3	30.0 × 45.0 × 42.0	B32676G4206K000	1080	17	3.5 10.4	16	15	4.0	100
25	54	20.3	33.0 × 48.0 × 42.0	B32676G4256K000	1350	17	4.3 13.0	18	17	1.5	48
30	35	20.3	35.0 × 50.0 × 57.5	B32678G4306+000	1050	17	5.2 15.6	19.5	18.5	2.1	27
35	35	20.3	35.0 × 50.0 × 57.5	B32678G4356+000	1225	17	6.0 18.1	21	20	1.7	27
40	35	20.3	35.0 × 50.0 × 57.5	B32678G4406K000	1400	17	6.9 20.7	22	21	1.5	27
			-	8	-		-			-	

Intermediate capacitance values are available on request.

Composition of ordering code

+ = Capacitance tolerance code

 $K = \pm 10\%$

 $J = \pm 5\%$



High power series (450 V DC ... 1050 V DC)

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Ordering codes and packing units for V_R = 630 V DC ($V_{op,70\,^{\circ}C}$ = 800 V DC)

C _R	dV/dt	P ₁	Max. dimensions w × h × l	Ordering code	I _{P,max}	ESL	I _{RMS, max} 70 °C, 0.1 0.3 kHz	I _{RMS, max} 70 °C, 10 kHz	I _{RMS, max} 70 °C, 20 kHz	ESR _{typ} 70 °C, 10 kHz	PU
μF	V/μs	mm	mm		Α	nΗ	Α	Α	Α	mΩ	pcs.
1.0	100	-	11.0 × 19.0 × 31.5	B32674D6105+000	100	25	0.2 0.7	5	4.5	14.4	320
1.5	100	-	12.5 × 21.5 × 31.5	B32674D6155+000	150	25	0.3 1.0	6.5	6	14.3	280
2.2	100	-	15.0 × 24.5 × 31.5	B32674D6225+000	220	25	0.5 1.5	7	6	8.0	240
3.3	100	-	16.0 × 32.0 × 31.5	B32674D6335+000	330	25	0.7 2.2	7	6	6.5	220
4.7	100	-	22.0 × 36.5 × 31.5	B32674D6475+000	470	25	1.0 3.1	9.5	9.5	5.8	160
5.0	100	-	22.0 × 36.5 × 31.5	B32674D6505+000	500	25	1.1 3.3	10.5	9.5	5.8	160
6.8	73	10.2	20.0 × 39.5 × 42.0	B32676G6685+000	496.4	17	1.5 4.5	10	9.5	7.1	160
7.5	73	10.2	20.0 × 39.5 × 42.0	B32676G6755+000	547.5	17	1.6 4.9	10	9.5	6.7	160
8.2	73	10.2	28.0 × 37.0 × 42.0	B32676G6825+000	598.6	17	1.8 5.4	10.5	10	6.2	110
10	73	20.3	28.0 × 42.5 × 42.0	B32676G6106+000	730	17	2.2 6.6	11	10.5	5.7	110
12	73	20.3	28.0 × 42.5 × 42.0	B32676G6126+000	876	17	2.6 7.9	11.5	11	5.5	110
14	73	20.3	30.0 × 45.0 × 42.0	B32676G6146+000	1022	17	3.1 9.2	12	11.5	3.6	100
15	73	20.3	33.0 × 48.0 × 42.0	B32676G6156+000	1095	17	3.3 9.9	15	14	2.3	48
20	50	20.3	35.0 × 50.0 × 57.5	B32678G6206+000	1000	17	4.4 13.2	17.5	16.5	2.9	27
25	50	20.3	35.0 × 50.0 × 57.5	B32678G6256+000	1250	17	5.5 16.5	20	19	2.6	27

Intermediate capacitance values are available on request.

Composition of ordering code

+ = Capacitance tolerance code

 $K = \pm 10\%$

 $J = \pm 5\%$



High power series (450 V DC ... 1050 V DC)

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Ordering codes and packing units for $V_R = 750 \text{ V}$ DC ($V_{op,70 \text{ °C}} = 900 \text{ V}$ DC)

C _R	dV/dt	P ₁	Max. dimensions w × h × l	Ordering code	I _{P,max}	ESL	I _{RMS, max} 70 °C, 0.1 0.3 kHz	I _{RMS, max} 70 °C, 10 kHz	I _{RMS, max} 70 °C, 20 kHz	ESR _{typ} 70 °C, 10 kHz	PU
μF	V/μs		mm		Α	nH	Α	Α	Α	mΩ	pcs.
0.68	125	-	11.0x19.0x31.5	B32674D1684+000	85	25	0.2 0.5	5	4.5	23.3	320
1	125	-	12.5x21.5x31.5	B32674D1105+000	125	25	0.3 0.8	6	5.5	12.4	280
1.5	125	-	14.0x24.5x31.5	B32674D1155+000	187.5	25	0.4 1.1	7.5	6	9.5	260
2.2	125	-	18.0x27.5x31.5	B32674D1225+000	275	25	0.6 1.7	9	7.5	6.6	200
3.3	125	-	21.0x31.0x31.5	B32674D1335+000	412.5	25	0.8 2.5	10	9	6.0	180
4.0	125	-	22.0x36.5x31.5	B32674D1405+000	500	25	1.0 3.0	11	10	5.6	160
4.7	85	10.2	20.0x39.5x42.0	B32676G1475+000	399.5	15	1.2 3.5	11	10	7.8	160
5.6	85	10.2	20.0x39.5x42.0	B32676G1565+000	476	15	1.4 4.2	11.5	10.5	7.1	160
6.8	85	20.3	28.0x37.0x42.0	B32676G1685+000	578	15	1.7 5.1	12.5	11.5	6.7	110
9	85	20.3	28.0x42.5x42.0	B32676G1905+000	765	15	2.3 6.8	14	13	6.0	110
10	85	20.3	30.0x45.0x42.0	B32676G1106+000	850	15	2.5 7.5	15	14	5.8	100
12	85	20.3	33.0x48.0x42.0	B32676G1126+000	1020	17	3.0 9.0	19.5	19	2.7	48
15	60	20.3	30.0x45.0x57.5	B32678G1156K000	900	17	3.8 11.3	20	19.5	3.7	70
20	60	20.3	35.0x50.0x57.5	B32678G1206K000	1200	17	5.0 15.1	21	20	2.6	27

Intermediate capacitance values are available on request.

Composition of ordering code

+ = Capacitance tolerance code

K = ±10%

 $J = \pm 5\%$



High power series (450 V DC ... 1050 V DC)

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Ordering codes and packing units for V_R = 875 V DC ($V_{op,70\,^{\circ}C}$ = 1050 V DC)

C _R	dV/dt	P ₁	Max. dimensions w × h × l	Ordering code	I _{P,max}	ESL	I _{RMS, max} 70 °C, 0.1 0.3 kHz	I _{RMS, max} 70 °C, 10 kHz	I _{RMS, max} 70 °C, 20 kHz	ESR _{typ} 70 °C, 10 kHz	PU
μF	V/μs	mm	mm		Α	nH	Α	Α	Α	mΩ	pcs.
0.47	150		11.0 × 19.0 × 31.5	B32674D8474+000	70.5	25	0.1 0.3	5	4.5	22.9	320
0.68	150		11.0 × 21.0 × 31.5	B32674D8684+000	102	25	0.2 0.5	6	5.5	18.6	320
1.0	150		13.5 × 23.0 × 31.5	B32674D8105+000	150	25	0.2 0.7	7.5	6	13.6	260
1.5	150		18.0 × 27.5 × 31.5	B32674D8155+000	225	25	0.4 1.1	7	6.5	8.5	200
2.2	150		18.0 × 33.0 × 31.5	B32674D8225+000	330	25	0.5 1.6	10	9	5.1	200
3.0	150		22.0 × 36.5 × 31.5	B32674D8305+000	450	25	0.7 2.1	11	10	6.8	160
3.3	100	10.2	20.0 × 39.5 × 42.0	B32676G8335+000	330	17	0.8 2.3	11	10	11.0	160
4.0	100	10.2	20.0 × 39.5 × 42.0	B32676G8405+000	400	17	0.9 2.8	11.5	10.5	9.8	160
4.7	100	20.3	28.0 × 37.0 × 42.0	B32676G8475+000	470	17	1.1 3.3	12.5	11.5	8.6	110
6.8	100	20.3	28.0 × 42.5 × 42.0	B32676G8685+000	680	17	1.6 4.8	14	13	8.3	110
7.5	100	20.3	30.0 × 45.0 × 42.0	B32676G8755+000	750	17	1.8 5.3	15	14	8.0	100
10	100	20.3	33.0 × 48.0 × 42.0	B32676G8106K000	1000	17	2.4 7.1	19.5	19	3.7	48
15	70	20.3	35.0 × 50.0 × 57.5	B32678G8156K000	1050	17	3.5 10.6	21	20	3.4	27

Intermediate capacitance values are available on request.

Composition of ordering code

+ = Capacitance tolerance code

 $K = \pm 10\%$

 $J = \pm 5\%$



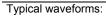
High power series (450 V DC ... 1050 V DC)

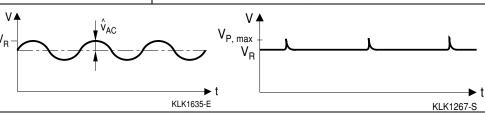
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Technical data

Reference standard: IEC 61071. All data given at T = 20 °C, unless otherwise specified.

Operating temperature range	Max. c	perating	temperat	ture, T _{op,m}	_{nax} +105 °C							
						Upper category temperature T _{max} +100 °C						
		Lower	Lower category temperature T _{min} -40 °C									
ESR (@ 10 kHz)	LS 27.5	< 3.0 ·	ESR _{typ}									
	LS 37.5	< 2.5 ·	ESR_{typ}									
	LS 52.5	< 1.5 ·	ESR_{typ}									
Insulation Resistance R_{ins} gi $\tau = C_R \cdot R_{ins}$, rel. humidity $\leq \ell$ (minimum as-delivered value	35%	30 000) s									
DC test voltage between terr	minals (10 s)	1.5 · V	'R									
DC test voltage terminal to o	ase (10 s)	2110 \	/ AC, 50I	Ηz								
Pulse handling capability (V/	/μs)	I _P (A) /	I _P (A) / C (μF)									
Damp heat test		56 day	56 days/40 °C/93% relative humidity									
Limit values after damp heat	test	Capac	Capacitance change ∆C/C ≤ 5%									
		Dissip	ation fact	or chang	e Δ tan δ	≤ 1.5·10 ⁻³ (@ 1KHz)						
		Insulat	tion resis	tance R _{in}	s	≥ 50% of minimum as-delivered values						
Reliability: Failure rate	e λ	1 fit (≤	1 · 10 ⁻⁹ /ľ	n) at 0.5 ·	V _R , 40 °C	0						
Service life	e t _{SL}	200 00	00 h at V _F	, 40 °C								
		refer to		"Quality		conditions and temperatures, ce", data book 2005 "Film						
V _R (V DC)		300	450	630	750	875						
Continuous operation voltag	e V _{op} (V DC) at 70 °C	450	630	800	900	1050						
Continuous operation voltag	e V _{op} (V DC) at 85 °C	300	450	630	750	875						
Maximum peak voltage V _{P,m}	ax (V DC)	450	675	950	1125	1300						
For temperatures between 8	1.2%/	1.2%/°C of derating respect V _{op} at 85 °C										





Restrictions:

V_R: Maximum operating peak voltage of either polarity but of a non-reversing waveform, for which the capacitor has been designed for continuous operation.

û_{AC}≤ 0.2•V_R

 $V_{P,\,max}$: Maximum permissible recurrent voltage that may appear for 2% of the period.



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Cautions and warnings

- Do not exceed the upper category temperature (UCT).
 Do not apply any mechanical stress to the capacitor
- Do not apply any mechanical stress to the capacitor terminals.
- Avoid any compressive, tensile or flexural stress.
- Do not move the capacitor after it has been soldered to the PC board.
- Do not pick up the PC board by the soldered capacitor.
- Do not place the capacitor on a PC board whose hole space differs from the specified lead space.
- Do not exceed the specified time or temperature limits during soldering.
- Avoid external energy inputs, such as fire or electricity.
- Avoid overload of the capacitors.

Resistance to soldering heat

Resistance to soldering heat is tested to IEC 60068-2-20, test Tb, method 1A. Conditions:

Series	Solder bath temp.	Soldering time
MKT boxed (except 2.5 x 6.5 x 7.2 mm); coated; MKP/MFP	260 ±5 °C	10±1s
MKT boxed (case 2.5 x 6.5 x 7.2 mm)	260 ±5 °C	5±1s

General notes on soldering

Permissible heat-exposure loads on film capacitors are primarily characterized by the upper category temperature T_{max}. Long exposure to temperatures above this type-related temperature limit can lead to changes in the plastic dielectric and thus irreversibly change a capacitor's electrical characteristics. For short exposure times (as in practical soldering processes), the heat load (and thus the possible effects on the capacitor) will also depend on other factors such as:

- The pre-heating temperature and time.
- The forced cooling immediately after soldering.
- The terminal characteristics: diameter, length, thermal resistance, special configurations (e.g. crimping).
- The height of the capacitor above the solder bath.
- Shadowing by neighboring components.
- Additional heating due to heat dissipation by neighboring components.
- Use of solder-resistant coatings.

The overheating associated with some of these factors can usually be reduced by suitable countermeasures. For example, if a pre-heating step cannot be avoided, an additional or reinforced cooling process may have to be included.

Cleaning

To determine whether a particular solvent, often used to remove flux residues and other substances, is suitable for the capacitors described, please refer to data book 2005 "Film Capacitors", in which this information is available. Even when suitable solvents are used, a reversible change of the electrical characteristics may occur in uncoated capacitors immediately after they have been washed. Thus it is always recommended to dry the components (e.g. 4 h at 70 °C) before they are subjected to subsequent electrical testing.

Embedding of capacitors in finished assemblies

In many applications, finished circuit assemblies are embedded in plastic resins. In this case, both chemical and thermal influences of the embedding ("potting") and curing processes must be taken into account. Our experience has shown that the following potting materials can be recommended considering maximum curing temperature 100 °C:

- Non-flexible epoxy resins with acid-anhydride hardeners
- Chemically inert, non-conducting fillers

Caution: Consult us first if you also wish to embed other uncoated component types!

Storage conditions

All capacitors listed in this product profile can be stored for short periods at any temperature within the entire range of category temperatures. For long storage periods, however, the following conditions should be observed:

- Storage temperature -40 to +40 °C
- Maximum relative humidity 80%, no dew allowed on the capacitor
- Maximum duration 24 months (12 months for taped components)

Resistance to vibration

A capacitor's ability to withstand vibration (e.g. such as that occurring in applications involving rotating machinery) is tested to IEC 60068-2-6. The test procedure used here involves continuous sinuscidal vibration along three orthogonal axes, with a continuously varying frequency (10 ... 500 Hz), an acceleration amplitude of 10 g, a displacement amplitude of 0.75 mm and a duration of 360 minutes for each axis. EPCOS offers film capacitors specially designed for operation under more severe vibration regimes such as those found in automotive applications. Consult our catalog "Film Capacitors for Automotive Electronics".

Passive flammability

The passive flammability test is applied to ensure that components bearing the corresponding qualification contribute less energy to the combustion behavior of their immediate vicinity than is required to ignite them. This measure is designed to contain any localized fire that may occur. In the respective tests, the capacitors are subjected to a standardized flame to evaluate their combustion behavior by checking whether the flame persists for longer than a maximum permissible period or not. The severity of the test is determined essentially by the test flame and exposure time in accordance with various international standards (IEC 60040 CO 752 (amendment to IEC 60384-1), IEC 60695-2-2 and UL 1414). Unless the detail specifications stipulate otherwise, EMI suppression capacitors are tested to IEC 60384-14, section 4.17, test severity categories B and C.



Important notes

The following applies to all products named in this publication:

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